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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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(54) Title: SHORT PEPTIDES FROM THE B4 AND B5 REGIONS OF PROTEIN KINASES WHICH SELECTIVELY MODULATE PROTEIN ACTIVITY

(57) Abstract: Peptides which are peptide derivatives of the B4-5 region of a protein kinase can modulate the activity of protein kinases. The activity of a protein kinase in a subject can be modulated by administering one or more of these peptides.

# INTERNATIONAL SEARCH REPORT

national Application No

PCT/US 00/32852

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 C12N9/12 C07K14/71 C12Q1/48 A61K38/45 C07K16/40

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 C12N C07K C12Q A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, SEQUENCE SEARCH, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
✓ X	WO 99 01765 A (SLOAN KETTERING INST CANCER) 14 January 1999 (1999-01-14) See especially example 19, SEQ ID Nos. 18-23, claims 9-12 and fig.18A ---	1-41
✓ X	WO 92 20362 A (SHASHOUA VICTOR E) 26 November 1992 (1992-11-26) See SEQ ID No.2, claims 13 and 31 ---	1, 3, 8, 9, 17, 20-22
✓ A	WO 98 53050 A (BEN SASSON SHMUEL A ;YISSUM RES DEV CO (IL); CHILDRENS MEDICAL CEN) 26 November 1998 (1998-11-26) the whole document ---	
✓ A	WO 95 28483 A (COLD SPRING HARBOR LAB) 26 October 1995 (1995-10-26) page 33, line 11 - line 15 ---	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

\* Special categories of cited documents :

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- \*P\* document published prior to the international filing date but later than the priority date claimed

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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\*&\* document member of the same patent family

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**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

Continuation of Box I.2

Claims Nos.: 1-17,20-41(all partially)

Present claims 1-17,20-41 relate to an extremely large number of possible compounds and their use in methods. E.g., said claims even comprise fragments of five amino acids wherein any two amino acids can be replaced. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Moreover, due to the use of expressions like "derivative" and "B4-5 region", which do not exactly define peptides and the inclusion of (substituted) fragments in said claims, the claims contain so many options, variables and possible permutations that a lack of clarity and/or conciseness within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the compounds defined in claim 18, fragments of at least five amino acids thereof, modifications as defined in claim 19, domains of the kinases up to 25 amino acids comprising the peptides of the claims 18 and 19, their use as defined in the claims 35-39,41 and antibodies thereto.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
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